API

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API Intro

What is API?

- **Application Programming Interface**
- An API is a way for two or more computer programs to communicate with each other.
- It is a type of software interface, offering a service to other pieces of software.[
- A document or standard that describes how to build or use such a connection or interface is called an *API specification*.
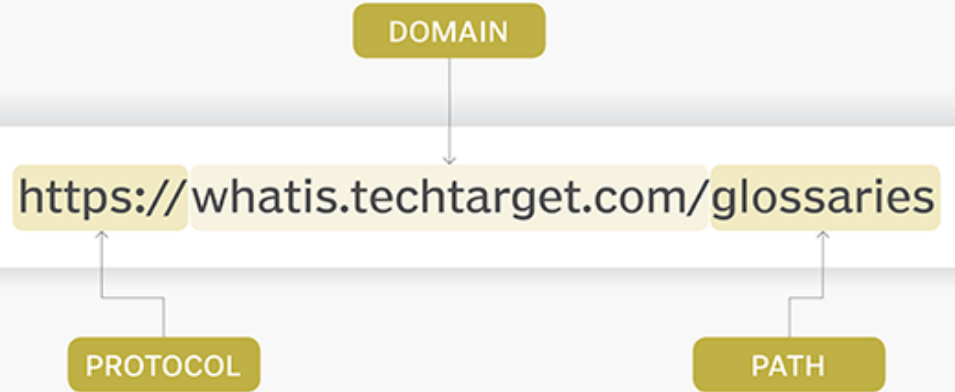
What is (an) API?

- A computer system that meets this standard is said to *implement* or *expose* an API.
- The term API may refer either to the specification or to the implementation.

What is HTTPs?

Basic URL structure

DOMAIN

https://whatis.techtarget.com/glossaries

PROTOCOL

PATH

What is HTTPs?

- HTTPS is not a separate protocol from HTTP. Rather, it is a variant that uses Transport Layer Security (TLS)/Secure Sockets Layer (SSL) encryption over HTTP to secure communications.

Videos

Videos

- Let's watch together a couple of videos:
  https://www.youtube.com/watch?v=xjigCDPmvIk&ab_channel=CodeWithMazn
- https://www.youtube.com/watch?v=s7wmiS2mSXY&ab_channel=MuleSoftVideos

Hands-on

Hands-on code

- We create an account here
- https://api.nasa.gov/
- We download POSTMAN to test our API calls
- We start writing code

Quiz

Quiz

- https://create.kahoot.it/share/javascript-intermediate/61bb5352-538b-49af-adaa-e9213dd0b613

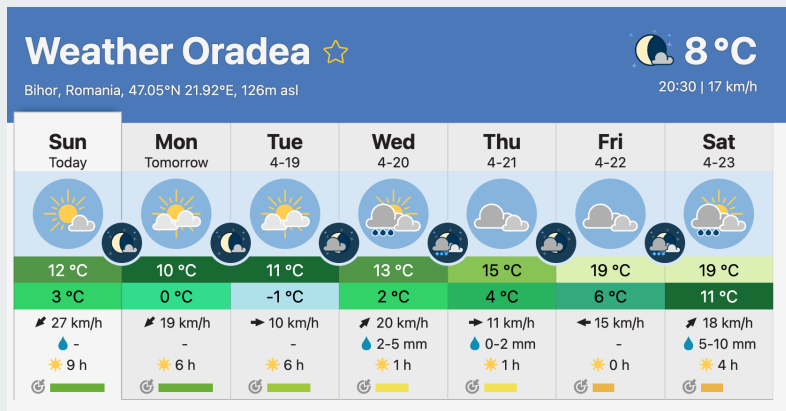- https://create.kahoot.it/share/asynchronous-javascript/e9d58fd1-8106-4376-b2a4-fb0dfa4fb99b

- https://codingfantasy.com/games/flexboxadventure

Interview Questions

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Assignment

Assignment

- Using the following API
  https://weatherdbi.herokuapp.com/data/weather/oradea
- Create an interface to display the weather forecast in Celsius
- The interface should have the possibility to switch to Fahrenheit
- Show the min/max temperatures, the picture for the situation and the day name of course
- API Documentation here:
  https://weatherdbi.herokuapp.com/documentation/v1

- You should use fetch (promises), display flex and anything you learned and want to apply

Assignment (Girls)

- Using the following API https://makeup-api.herokuapp.com/api/v1/products.json?brand=maybelline

- Create an interface to display the Makeup Products for 3 Brands of your liking (e.g. Maybeline and two others)
- On item click redirect to buy page
- Display item price
- Display items in a grid(as a layout) of 5 in a row
- You should use fetch (promises), display flex and anything you learned and want to apply
- Documentation API here: https://makeup-api.herokuapp.com/

Assignment (Boys)

- Using the following API
  https://vpic.nhtsa.dot.gov/api/

- Create an interface to display 3 brands of
  your favorite Brand
- Each brand should have 3 models
  displayed in their respective category
- on car click you should redirect to a
  google search wiki with the car brand and
  model
- Documentation API here:
  https://vpic.nhtsa.dot.gov/api/

Resources

Resources

- https://www.techtarget.com/searchsoftwarequality/definition/HTTPS
- https://www.postman.com/downloads/
- https://api.nasa.gov/